

Agenda/Notes/Objectives Calculus Section 2.3

Starter Problems

1. Find the derivative for $y = x^2 \tan x$.
2. Evaluate the derivative of $f(x) = \sin x(\sin x + \cos x)$ at the point $\left(\frac{\pi}{4}, 1\right)$. Check your result with a calculator.
3. Prove the differential rule $\frac{d}{dx}[\cot x] = -\csc^2 x$.

Today's Agenda

1. Starter problems
2. Review assignment due
3. Today's objectives
4. Today's assignment: 127/63, 65, 71, 75, 77, 83, 87, 93, 97, 113

Today's Objectives: You will be able to

1. Use the product rule to find the derivative.
2. Use the quotient rule to find the derivative.
3. Find the derivative of a trigonometric function.
4. Find a higher-order derivative of a function